

FIRE ENGINEER

General Statement of Duties: Performs all the duties of a Firefighter and specializes in driving and operating heavy duty fire fighting apparatus; does related work as required.

Distinguishing Features of the Class: An Engineer is responsible for safely driving fire fighting apparatus in route to and from fires and for the efficient operation of pumps at the scene of the fire. Although the operation of equipment is the most difficult and responsible part of the work, a large part of the time is spent in study, inspection and maintenance of apparatus operated and in cleaning and maintaining quarters. Work is performed in accordance with instructions and a well defined routine. Supervision is received from departmental superiors.

Examples of Work: (Illustrative only)

- Drives fire pumpers and ladder and rescue trucks to scene of a fire and prepares for pumping operation by seeing that hydrant connections are made;
- Pumps water to fire at a designated pressure and sees that suction hose and fire hose are properly located;
- Watches condition of motor and unit during operation and makes necessary adjustments or changes;
- Operates generators, performs fire fighting duties, raises snorkel and ladders;
- Ventilates burning buildings and removes persons from danger;
- Throws savage covers and removes debris;
- Participates in fire drills and attends classes in fire fighting and first aid;
- Checks engine daily and inspects pumping equipment, gasoline, oil, water levels, ignition, batteries, brakes, oxygen tanks, hoses, respirator, lights, lighting equipment and other equipment to see that the apparatus is present and in good working condition and notifies supervisor of any defect;
- Cleans equipment after returning from a fire;
- Assists in keeping fire station in a clean and orderly condition; Commands company in absence of a Captain.

Required Knowledge, Skills and Abilities: Thorough knowledge of hydraulics, pump pressures, and hose layout requirements and an acute awareness for safety to the public and safety to company personnel during emergency response; good knowledge of the physical layout of the City including the fire hydrants, fire lane patterns, street system and sprinkler and standpipe locations in business, industry, schools, hospitals, apartments, office and public buildings; knowledge of modern fire fighting principles, practices and procedures including hydraulics; knowledge of first aid principles and skill in their application; knowledge of Fire Department rules and regulations; ability to react quickly and calmly in emergency conditions; ability to operate heavy fire apparatus safely and efficiently; aptitude for mechanical work; ability to make mental calculations of engine pressures required for necessary hookups; good physical condition.

Acceptable Experience and Training: Some experience in fire fighting work; or any equivalent combination of experience and training which provides the required knowledge, skills and abilities. Must possess a valid Iowa Chauffeur's License.